

Precision Polymer Engineering Z70B Hydrogenated NBR Compound

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Peroxide cured, Hydrogenated Nitrile Butadiene Rubber (HNBR), 65-75 °IRHD. Medium acrylonitrile content (ACN = 34%). To meet ASTM D2000/SAE J200 line call-out M4DH716, A26, B36, E016, E036, F17. Applications: High strength and excellent chemical resistance. Higher operating temperature than standard nitrile. Suitable for use with sour (H₂S) crude oil and gas, which may also include lubricating, oil additives and amine corrosion inhibitors. Good resistance to weathering and ozone.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-Z70B-Hydrogenated-NBR-Compound.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	°IRHD; ASTM D1415
	75	75	°IRHD, +5 change after 70 hours @ 150°C; ASTM D1415
Tensile Strength, Yield	16.3 MPa	2360 psi	ASTM D412
	17.93 MPa	2601 psi	10% change after 70 hours @ 150°C; ASTM D412
Elongation at Break	225 %	225 %	-10% change after 70 hours @ 150°C; ASTM D412
	250 %	250 %	ASTM D412
Compression Set	15 %	15 %	24 hours @ 150°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	Static
	-40.0 °C	-40.0 °F	Non-brittle after 3 minutes
	-30.0 °C	-22.0 °F	Dynamic
Flash Point	>= 300 °C	>= 572 °F	

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